

19-109-4178REPORT DATE
Apr 19, 2019
RECEIVED DATE
Apr 10, 2019SEND TO
12352**PAGE 1/5**ISSUE DATE
Apr 19, 2019

**PACE ANALYTICAL SERVICES
PACE ANALYTICAL SERVICES
9608 LOIRET BLVD
LENEXA KS 66219-**

REPORT OF ANALYSIS

For: (12352) PACE ANALYTICAL SERVICES
liquid
60299511 Sub 9852

Analysis	Level Found	Reporting			Analyst- Date	Verified- Date
	As Received	Units	Limit	Method		
Sample ID: West Lagoon 60299511001 Lab Number: 8614775 Date Sampled: 2019-04-08 1235						
Aflatoxin B1	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin B2	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin G1	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin G2	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin summation	n.d.	ppb	1.00	Calculation	Auto-2019/04/17	Auto-2019/04/19
DON (Vomitoxin)	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Fumonisin B1	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Fumonisin B2	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Fumonisin B3	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Fumonisin summation	n.d.	ppm	0.10	Calculation	Auto-2019/04/17	Auto-2019/04/19
Ochratoxin	n.d.	ppb	1.0	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
T-2 toxin	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/19
Zearalenone	n.d.	ppb	50	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Sample ID: Overflow Lagoon 60299511002 Lab Number: 8614776 Date Sampled: 2019-04-08 1330						
Aflatoxin B1	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin B2	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin G1	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin G2	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin summation	n.d.	ppb	1.00	Calculation	Auto-2019/04/17	Auto-2019/04/19

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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9608 LOIRET BLVD
LENEXA KS 66219-

REPORT OF ANALYSIS

For: (12352) PACE ANALYTICAL SERVICES
 liquid
 60299511 Sub 9852

Analysis	Level Found As Received	Units	Reporting Limit	Method	Analyst- Date	Verified- Date
Sample ID: Overflow Lagoon 60299511002						
Lab Number: 8614776 (con't)						
DON (Vomitoxin)	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Fumonisin B1	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Fumonisin B2	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Fumonisin B3	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Fumonisin summation	n.d.	ppm	0.10	Calculation	Auto-2019/04/17	Auto-2019/04/19
Ochratoxin	n.d.	ppb	1.0	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
T-2 toxin	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/19
Zearalenone	n.d.	ppb	50	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Sample ID: Wet Cake 6029951003						
Lab Number: 8614777 Date Sampled: 2019-04-08 1100						
Aflatoxin B1	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin B2	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin G1	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin G2	n.d.	ppb	1.00	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Aflatoxin summation	n.d.	ppb	1.00	Calculation	Auto-2019/04/17	Auto-2019/04/19
DON (Vomitoxin)	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/19	tjp8-2019/04/19
Fumonisin B1	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/19
Fumonisin B2	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/19
Fumonisin B3	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/19
Fumonisin summation	n.d.	ppm	0.10	Calculation	Auto-2019/04/19	Auto-2019/04/19

The result(s) issued on this report only reflect the analysis of the sample(s) submitted.

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9608 LOIRET BLVD
LENEXA KS 66219-**

REPORT OF ANALYSIS

For: (12352) PACE ANALYTICAL SERVICES
liquid
60299511 Sub 9852

Analysis	Level Found	Units	Reporting		Analyst- Date	Verified- Date
	As Received		Limit	Method		
Sample ID: Wet Cake 6029951003 Lab Number: 8614777 (con't)						
Ochratoxin	n.d.	ppb	1.0	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
T-2 toxin	n.d.	ppm	0.1	AOAC 2008.02 (mod)	kmc4-2019/04/17	tjp8-2019/04/17
Zearalenone	n.d.	ppb	50	AOAC 2008.02 (mod)	kmc4-2019/04/19	tjp8-2019/04/19

All results are reported on an AS RECEIVED basis., n.d. = not detected , ppm = parts per million, ppm = mg/kg , ppb = parts per billion

cc: Account(s) 12352 PACE ANALYTICAL SERVICES

For questions please contact:


Heather Ramig
Account Manager
hramig@midwestlabs.com (402)829-9891

**PACE ANALYTICAL SERVICES
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REPORT OF ANALYSIS

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liquid
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Detailed Method Description(s)**Mycotoxin extraction and analysis**

Sample analysis follows MWL LCMS 020 which is based on AOAC 2008.02 (modified). Samples are ground to a homogenous consistency and placed in an extraction solution. The extract is allowed to equilibrate and then an aliquot passed through an immunoaffinity column which contains antibodies that are specific for the mycotoxins. The mycotoxins are released from the affinity column and then analyzed by either LC/MS and/or LC/MS/MS which allows identification of the mycotoxins using mass spectrometry and retention time.

Calculation

Analytical results are entered into applicable formulas to provide a calculated result which is reported.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: EA Eng Science and Technology
Address: 221 Sun Valley Blvd Suite D
Lincoln, NE 68528
Email To: dbigbee@eaest.com
Phone: 402-817-7612 Fax:
Requested Due Date/TAT:

Section B

Required Project Information:

Report To: Dan Bigbee
Copy To: Kent Dixon
Purchase Order No.: LSO #
Project Name: AltEn LLC
Project Number: AltEn LLC Digester Sampling

Section C

Invoice Information:

Attention: Accounts Payable, Dan Bigbee
Company Name: EA Eng Science and Technology
Address:
Pace Quote Reference: 58462 (JR)
Pace Project Manager: Trudy Gipson 913-563-1405
Pace Profile #: 12849 Lines 1 & 2

Page: 1 of 1

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location
STATE: NE

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓ Mycotoxins (Full Screen)*	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Y	N		Y	N	Y	N	Y	N	Y	N	Y	N			Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*Sub Midwest Laboratories	Midwest Laboratories / NDEA	4/8/19	430	Kent Dixon	4/8/19	1630	
	Kent Dixon / EA	4-9-19	1630				
				Am 4/10/19			5.6' Am 4/13

SAMPLER NAME AND SIGNATURE	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Daniel LeMaistre				
SIGNATURE of SAMPLER: [Signature]				
DATE Signed (MM/DD/YY): 4/8/19				